

Tessellation 15

Suite: Tessellation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 1.580

139 + 24 girdles = 163 facets

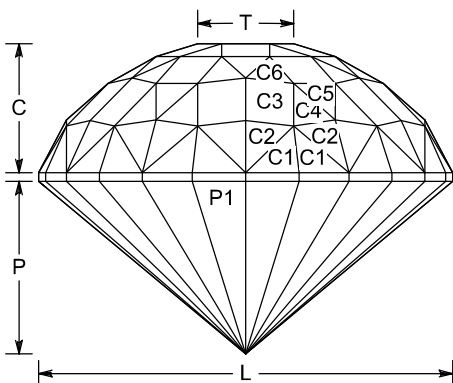
12-fold, mirror-image symmetry

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L/W = 1.000 T/W = 0.232 U/W = 0.201

P/W = 0.416 C/W = 0.311

Vol./W³ = 0.270



PAVILION

P1	40.00°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	Cut to centerpoint.
G1	90.00°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	Set stone size.

CROWN

C1	65.51°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	Set girdle width.
C2	62.25°	01-07-09-15-17-23-25-31-33-39-41-47-49-55-57-63-65-71-73-79-81-87-89-95	Meet G1, C1
C3	41.58°	02-14-18-30-34-46-50-62-66-78-82-94	Meet C1, C2
C4	43.60°	06-10-22-26-38-42-54-58-70-74-86-90	Meet C1, C2, C3
C5	41.10°	08-24-40-56-72-88	Meet C2, C4
C6	30.70°	03-13-19-29-35-45-51-61-67-77-83-93	Meet C3, C4, C5
C7	29.34°	08-24-40-56-72-88	Meet C3, C4, C5, C6
C8	27.27°	96-16-32-48-64-80	Meet C3, C6
C9	17.20°	08-24-40-56-72-88	Meet C6, C7, C8
C10	15.00°	96-16-32-48-64-80	Meet C6, C7, C8, C9
T	0.00°	Table	Meet C9, C10

This is a total rebuild of the old version of this design. For some reason, the domed crown reminds me very much of an igloo. Yes, the variable checkerboard crown gets tedious and errors compound, but if you prepolish from the top down it should be fine. Works in materials from beryl to rutile (RI = 1.58 - 2.62) with no changes, and should serve as an excellent choice for flawless, pale materials of any type.

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